



Electronics

Product Guide

*Innovation,
Reliability &
Support*

Electronics
Solutions

DOW CORNING



<i>Dow Corning®</i> brand Adhesives and Sealants	Description	Color	Cure System, 1- or 2-Part	Viscosity/ Flowability, cps or mPa-sec	Specific Gravity	
<i>Dow Corning®</i> 744 RTV Sealant	Excellent adhesion	White	1	Nonflow	1.42	
<i>Dow Corning®</i> SE 9186 White	Fast tack-free time; controlled volatility	White	1	63,000	1.04	
<i>Dow Corning®</i> SE 9186 L Black	Fast tack-free time; controlled volatility	Black	1	25,000	1.02	
<i>Dow Corning®</i> SE 9186 L Clear	Fast tack-free time; controlled volatility	Translucent	1	25,000	1.02	
<i>Dow Corning®</i> SE 9187 L White	Fast tack-free time; controlled volatility	White	1	1,100	1.00	
<i>Dow Corning®</i> SE 9187 L Clear	Fast tack-free time; controlled volatility	Translucent	1	1,100	1.00	
<i>Dow Corning®</i> 3140 RTV Coating	Flowable; good cured strength; contains UV indicator	Translucent	1	31,000	1.03	
<i>Dow Corning®</i> 3145 RTV MIL-A-46146 Adhesive/Sealant, Gray	High tensile strength, elongation, peel and lap shear values; contains UV indicator	Gray	1	Nonflow	1.11	
<i>Dow Corning®</i> 3145 RTV MIL-A-46146 Adhesive/Sealant, Clear	High tensile strength, elongation, peel and lap shear values; contains UV indicator	Translucent	1	Nonflow	1.10	
<i>Dow Corning®</i> Q3-6093 RTV Adhesive Kit	Self-priming; rapid room temperature and deep section cure; good green strength; good room-temperature adhesion to most substrates	Black	2	Nonflow	1.37	
<i>Dow Corning®</i> Q3-6611 Adhesive, Black	Self-priming; rapid heat cure; high strength	Black	1	85,000	1.32	
<i>Dow Corning®</i> Q3-6611 Adhesive, Gray	Self-priming; rapid heat cure; high strength	Gray	1	85,000	1.31	
<i>Dow Corning®</i> 3-6876 Adhesive, Gray	Self-priming; rapid heat cure; high strength; lower viscosity version of Q3-6611 adhesive	Gray	1	36,000	1.31	
<i>Dow Corning®</i> 3-6265 HP	Self-priming; rapid heat cure; high strength; non-flowing version of Q3-6611 adhesive; contains UV indicator	Black	1	400,000	1.31	
<i>Dow Corning®</i> Q1-9225 Silicone Adhesive Kit	Self-priming; high strength	White	2	Nonflow	-	
<i>Dow Corning®</i> EA-6052 Fast Low-Temp Cure Adhesive Kit	Rapid low temperature; flowable; UV indicator	Black	2	41,000/51,000	1.09	
<i>Dow Corning®</i> 3-1595 Silicone Adhesive	Soft; thixotropic; self-priming	Gray	1	570,000	1.06	
<i>Dow Corning®</i> brand Conformal Coatings	Description	Color	Cure System, 1- or 2-Part	Viscosity/ Flowability, cps or mPa-sec	Specific Gravity	
<i>Dow Corning®</i> 1-4105 Conformal Coating	Fast heat cure; soft; stress relieving; UV indicator	Clear	1	470	0.97	
<i>Dow Corning®</i> Q1-4010 Conformal Coating	Heat cure; moderate strength; UV indicator	Clear	1	830	1.00	
<i>Dow Corning®</i> 3140 RTV Coating	Flowable; good cured strength; contains UV indicator	Translucent	1	30,000	1.03	
<i>Dow Corning®</i> 3-1953 Conformal Coating	Heat accelerable; elastomeric coating	Light Straw/Translucent	1	360	0.99	
<i>Dow Corning®</i> 3-1965 Conformal Coating	Sprayable elastomeric coating	Light Straw/Translucent	1	110	0.99	
<i>Dow Corning®</i> HC 2000	Elastomeric coating; controlled volatility	Translucent	1	130	1.01	
<i>Dow Corning®</i> SE 9187 L White	Elastomeric coating; fast tack-free time; controlled volatility	White	1	1,100	1.00	
<i>Dow Corning®</i> SE 9187 L Clear	Elastomeric coating; fast tack-free time; controlled volatility	Translucent	1	1,100	1.00	
<i>Dow Corning®</i> 1-2577 Low VOC Conformal Coating	Hard finish with abrasion resistance; solvent borne; UV indicator	Clear	1	1,250	0.88	
<i>Dow Corning®</i> 1-2620 Low VOC Conformal Coating	Low viscosity; hard finish with abrasion resistance; UV indicator	Clear	1	385	0.90	

	Room Temp Cure, Time	RT Tack-Free Time, min	Heat Cure, Time	Durometer	Working Time, RT	Tensile Strength, psi/MPa (kgf/cm ²)	Elongation, %	Unprimed/Lap Shear Adhesion, psi/N/cm ² (kgf/cm ²)	Shelf Life from Date of Manufacture, months	Agency Listing
	48 hr	30	NA	39 Shore A	NA	380/2.6/27	630	-	12 @ <30°C	NA
	48 hr	9	NA	20 A	NA	300/2.1/21	490	230/160/16.1	15 @ <32°C	NA
	48 hr	8	NA	25 A	NA	230/1.6/16	320	160/115/11.5	15 @ <32°C	NA
	48 hr	8	NA	25 A	NA	230/1.6/16	320	160/115/11.5	15 @ <32°C	NA
	48 hr	9	NA	17 A	NA	60/0.4/4	170	40/30/3.1	15 @ <32°C	NA
	48 hr	9	NA	17A	NA	60/0.4/4	170	40/30/3.1	15 @ <32°C	NA
	72 hr	70	NA	31 A	NA	450/3.1/32	420	-	12 @ <32°C	UL/Mil Spec
	48 hr	75	NA	49 A	NA	1030/7.1/72	670	-	12 @ <32°C	Mil Spec
	48 hr	55	NA	45 A	NA	940/6.5/66	660	-	12 @ <32°C	Mil Spec
	1.5 hr	-	NA	42 A	32 min	250/1.7/18	220	230/160/16.5	12 @ RT	NA
	NA	NA	-	60 A	NA	840/5.8/59	230	820/570/58.0	12 @ <5°C	NA
	NA	NA	30 min @ 150°C; 60 min @ 125°C	60 A	NA	850/5.9/60	240	800/550/56.2	12 @ <5°C	NA
	NA	NA	30 min @ 150°C; 60 min @ 125°C	54 A	NA	800/5.5/56	260	620/430/43.9	12 @ <4°C	NA
	NA	NA	35 min @ 100°C; 7 min @ 125°C; 5 min @ 150°C	71 A	-	870/6.0/61	150	870/605/61.8	12 @ <5°C	NA
	NA	NA	30 min @ 150°C	46 A	8 hr	1000/6.9/70	420	420/290/29.5	12 @ <30°C	NA
	NA	NA	60 min @ 90°C; 30 min @ 125°C; 10 min @ 150°C	56 A	6 hr	770/5.3/54	150	730/500/51.2	12 @ <40°C	NA
	NA	NA	<60 min @ 125°C	60 OO	NA	240/1.7/17	800	230/160/16.3	12 @ <5°C	NA

	Room Temp Cure, Time	RT Tack-Free Time, min	Heat Cure, Time	Durometer	Dielectric Strength, volts/mil	Dielectric Strength, kV/mm	Volume Resistivity, ohm-cm	Shelf Life from Date of Manufacture, months	Agency Listing
	NA	NA	10 min @ 105°C	65 OO	500	19.7	2.7E+13	7 @ <25°C	UL 94 V-1 & 746C
	NA	NA	15 min @ 110°C	30 A	530	20.9	5.8E+14	12 @ <5°C	UL 94 V-1 or HB & 746C/Mil Spec
	72 hr	70	NA	31 A	445	17.5	2.1E+14	12 @ <32°C	UL 94 V-1 & 746C/Mil Spec
	24 hr	10	2 min @ 60°C/ 15% RH	26 A	410	16.1	1.6E+15	12 @ <30°C	UL 94 V-0/Mil Spec (pending)
	24 hr	5	2 min @ 60°C/ 15% RH	29 A	450	17.7	5.7E+14	12 @ <30°C	UL 94 V-0/Mil Spec (pending)
	1.5 hr	15	NA	25 A	840	33	1.0E+17	12 @ <32°C	UL (pending)
	0.5 hr	9	NA	17 A	510	20	3.0E+15	15 @ <32°C	UL 746C
	0.5 hr	9	NA	17 A	510	20	3.0E+15	15 @ <32°C	UL 94 V-0 & 746C
	72 hr	6	10 min @ 80°C	25 D	340	13.4	1.9E+14	36 @ <32°C	UL 94 V-0 or HB & 746C/Mil Spec
	1 hr	5	2 min @ 60°C/ 15% RH	25 D	410	16.2	1.05E+15	24 @ <32°C	UL 94 V-0 or HB & 746C/Mil Spec

<i>Dow Corning®</i> brand Thermally Conductive Materials	Description	Color	Cure System, 1- or 2-Part	Viscosity/Flowability, cps or mPa-sec	Specific Gravity	
<i>Dow Corning®</i> SC 102 Compound	White; non-flowing; highly filled compound; good thermal conductivity	White	1	Non-flowing	2.37	
<i>Dow Corning®</i> TC-5022 Thermally Conductive Compound	Non-curing; thermally conductive silicone paste; low thermal resistance; high thermal conductivity	Gray	1	91,000 - Measurement after dilution with 1 wt% <i>Dow Corning®</i> OS-30 Fluid	3.23	
<i>Dow Corning®</i> TP-2160 Thermal Pad	Gap filler interface; foam-based thermal gel; one side tacky	Gray	1	NA	2.1	
<i>Dow Corning®</i> 1-4173 Thermally Conductive Adhesive	Heat cure; highly thermal conductive; low flow; self-priming	Gray	1	58,000	2.70	
<i>Dow Corning®</i> SE 4450 Thermally Conductive Adhesive	Heat cure; flowable; excellent thermal conductivity	Gray	1	54,000	2.74	
<i>Dow Corning®</i> Q1-9226 Thermally Conductive Adhesive, Parts A & B	Heat cure; moderate flow; self-priming; thermally conductive	Gray	2	50,000	2.13	
<i>Dow Corning®</i> 3-6655 Thermally Conductive Elastomer Kit	Low viscosity; soft; excellent thermal conductivity	Gray	2	33,000	2.7	
<i>Dow Corning®</i> SE 4447 CV Kit	Liquid silicone elastomer designed for applications requiring very high thermal conductivity and electrical insulation	Gray	2	222,000	3.01	
<i>Dow Corning®</i> SE 4445 CV Kit	Two-part, 1:1 addition cure gel; gray; good thermal conductivity; controlled volatility, UL V-0	Gray	2	14,000	2.36	
<i>Dow Corning®</i> brand Encapsulants & Gels	Description	Color	Cure System, 1- or 2-Part	Viscosity/Flowability, cps or mPa-sec	Specific Gravity	
<i>Sylgard®</i> 160 Silicone Elastomer Kit	RT or heat cure; moderate thermal conductivity; UL	Gray	2	4,000	1.57	
<i>Sylgard®</i> 170 Fast Cure Silicone Elastomer Kit	Fast RT curing; low viscosity; UL	Black	2	2,850	1.37	
<i>Sylgard®</i> 184 Silicone Elastomer Kit	RT and heat cure; good strength; UL and Mil Spec	Clear	2	5,200	1.03	
<i>Dow Corning®</i> 255 Primerless Elastomer Kit	Flexible; good dielectric properties	Gray to Black	2	5,800	1.3	
<i>Sylgard®</i> 567 Primerless Silicone Encapsulant Kit	Long working time; self-priming; UL and Mil Spec	Black	2	1,500	1.24	
<i>Dow Corning®</i> 3-6121 Low Temperature Elastomer	Low temperature performance below -65°C; clear; high tear and tensile strength; high refractive index	Translucent	2	19,250	1.12	
<i>Dow Corning®</i> SE 1816 CV Kit	UL V-0; controlled volatility; self-priming; long working time with moderate temp cure; UL V-0	Black	2	2,700	1.36	
<i>Dow Corning®</i> SE 1740	Low-temperature cure; self-priming elastomer	Clear	2	925	1.00	

	Room Temp Cure, Time	RT Tack-Free Time, min	Heat Cure, Time	Durometer	Working Time, RT	Thermal Conductivity, watts/meter- K	Gel Hardness, grams/ Penetration, tenths of mm	Tensile Strength, psi/MPa (kgf/cm ²)	Elongation, %	Shelf Life from Date of Manufacture, months	Agency Listing
	NA	Non-curing	NA	NA	NA	0.80	NA	NA	NA	24 @ <32°C	NA
	NA	Non-curing	NA	NA	NA	4.0	NA	NA	NA	24 @ <32°C	NA
	NA	NA	NA	60 Shore OO	NA	0.7	-	40 psi	150	48 @ RT	NA
	NA	NA	90 min @ 100°C	92 A	NA	1.90	NA	900/6.2/63.3	20	6 @ 5°C	NA
	NA	NA	30 min @ 150°C	95 A	NA	1.92	NA	1044/7.2/73.4	40	6 @ <5°C	NA
	NA	NA	1 hr @ 100°C	66 A	16 hr	0.74	NA	508/3.5/35.7	110	12 @ <40°C	NA
	NA	17 hr	3.6 min @ 150°C	71 Shore OO	1 hr	1.8	NA	45/31/3.2	90	12 @ <30°C	UL
	NA	4 hr	5.5 min @ 100°C; 4.9 min @ 125°C; 3.7 min @ 150°C	86 Shore OO	-	2.5	NA	20/14/1.4	20	6 @ <32°C	None
	NA	NA	30 min @ 120°C	NA	6 hr	1.34	NA/57	-	-	6 @ <32°C	UL

	Room Temp Cure, Time	RT Tack-Free Time, min	Heat Cure, Time	Durometer	Working Time, RT	Unprimed Adhesion Lap Shear, psi	Thermal Conductivity, watts/meter- K	Shelf Life from Date of Manufacture, months	Agency Listing
	24 hr	NA	10 min @ 100°C	60 A	30 min	NA	0.58	18 @ <40°C	UL
	10 min	10 min	10 min @ 25°C	45 A	<5 min	NA	0.40	18 @ <40°C	UL
	48 hr	NA	45 min @ 100°C	48 A	>2 hr	NA	0.18	24 @ <32°C	UL/Mil Spec
	5 hr	NA	NA	30 A	<5 min	44	0.24	12 @ <10°C	NA
	NA	NA	60 min @ 125°C	42 A	>3 days	140	0.30	24 @ <35°C	UL/Mil Spec
	48 hr	NA	20 min @ 100°C	34 A	2 hr	NA	0.18	18 @ <25°C	NA
	NA	NA	1 hr @ 100°C	39 A	24 hr	210	0.40	6 @ <32°C	UL
	NA	NA	30 min @ 80°C	34 OO	24 hr	29	NA	12 @ <32°C	NA

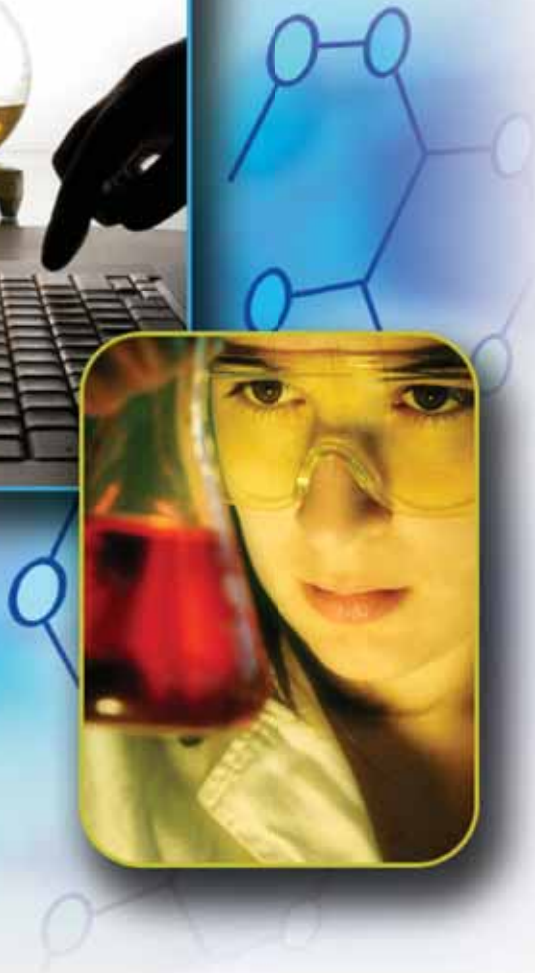
Dow Corning® brand Gels	Description	Color	Cure System, 1- or 2-Part	Viscosity/ Flowability, cps or mPa-sec	Specific Gravity
Sylgard® 527 A&B Silicone Dielectric Gel	RT or heat cure; clear	Clear or Red	2	430	0.95
Dow Corning® 3-4150 Dielectric Gel Kit	Fast RT or heat cure; general purpose	Transparent Green	2	480	0.97
Dow Corning® Q3-6575 Dielectric Gel A/B Kit	RT or heat cure; clear; low-temperature (-80°C/-112°F) stability	Clear	2	750	1.02
Dow Corning® SE 1880	Low-temperature-resistant gel	Clear/Blue	1	800	0.97
Fluorogel™ Q3-6679 Dielectric Gel Kit	RT or heat cure; solvent and fuel resistant	Clear	2	1,200	1.26
Sylgard® 3-6636 Silicone Dielectric Gel Kit	Two-part, RT or heat cure; clear; high viscosity	Clear	2	3,250	0.99

Dow Corning® brand Primers	Color	Solvent	Flash Point, °C	VOC, g/L	Substrates
Dow Corning® 1200 OS Primer, Clear	Colorless liquid	Volatile siloxanes	27	76	All
Dow Corning® 1200 RTV Prime Coat	Clear/Red	Naphta	13	723	All
Dow Corning® 1205 Prime Coat	Clear	Mixture	13	862	Most plastics

Dow Corning® brand Cleaning Fluids	Color	Viscosity	Specific Gravity	Flash Point, °C	Drying Rate
Dow Corning® OS 10 Fluid	Clear	0.65	0.76	-3	Acetone
Dow Corning® OS 20 Fluid	Clear	1.00	0.82	34	IPA
Dow Corning® OS 120 Fluid	Clear	0.65	0.77	-4	Acetone

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	Room Temp Cure, Time	Heat Cure, Time	Gel Hardness, grams/Penetration, tenths of a mm	Working Time, RT	Shelf Life from Date of Manufacture, months	Agency Listing
	24 hr/1 week	200 min @ 100°C; 75 min @ 125°C; 35min @ 150°C	115/45	90 min	12 @ RT	NA
	45 min/90 min	-	105/50	5 min	12 @ RT	NA
	5 hr/24 hr	40 min @ 70°C; 20 min @ 100°C	70/80	20 min	12 @ RT	NA
	NA	30 min @ 150°C	65/85	NA	-	NA
	24 hr/>1 wk	120 @ 100°C	185/30	>4 hr	12 @ RT	NA
	3 hr/24 hr	180 min @ 70°C; 45 min @ 100°C	100/55	20 min	12 @ RT	NA



Go Beyond Materials With Dow Corning's Proven Capabilities

Dow Corning Electronics is committed to being your ally. We leverage our expertise and capabilities beyond materials. Our technical experts can assist you from one of our global locations to solve your design, productivity and quality challenges. We can:

- Customize products
- Prototype production
- Identify potential product shortcomings or process complications
- Provide product comparisons
- Perform a wide range of optimization tests under production conditions

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